

SEQUENCE LISTING

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<120> AVIDIN MUTANTS

<130> 3502-1105

<140> 10/579,393

<141> 2006-05-15

<150> PCT/FI04/000679

<151> 2004-11-15

<150> FI 20031663

<151> 2003-11-14

<160> 33

<170> PatentIn Ver. 3.3

<210> 1

<211> 152

<212> PRT

<213> Gallus gallus

<400> 1

Met Val His Ala Thr Ser Pro Leu Leu Leu Leu Leu Leu Ser Leu
 1 5 10 15

Ala Leu Val Ala Pro Gly Leu Ser Ala Arg Lys Cys Ser Leu Thr Gly
 20 25 30

Lys Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn
 35 40 45

Ser Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr
 50 55 60

Ser Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile
 65 70 75 80

Asn Lys Arg Thr Gln Pro Thr Phe Gly Phe Thr Val Asn Trp Lys Phe
 85 90 95

Ser Glu Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp Arg Asn
 100 105 110

Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser Val Asn
 115 120 125

Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn Ile Phe
 130 135 140

Thr Arg Leu Arg Thr Gln Lys Glu
145 150

<210> 2

<211> 298

<212> PRT

<213> Gallus gallus

<400> 2

Met Val His Ala Thr Ser Pro Leu Leu Leu Leu Leu Leu Ser Leu
1 5 10 15

Ala Leu Val Ala Pro Gly Leu Ser Ala Arg Lys Arg Thr Gln Pro Thr
20 25 30

Phe Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe
35 40 45

Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr
50 55 60

Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys
65 70 75 80

Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys
85 90 95

Glu Gly Gly Ser Gly Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys
100 105 110

Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser
115 120 125

Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser
130 135 140

Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn
145 150 155 160

Lys Ser Gly Gly Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp
165 170 175

Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser
180 185 190

Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn
195 200 205

Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly Gly Ser
210 215 220

Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser
225 230 235 240

Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr
245 250 255

Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro
 260 265 270

Leu His Gly Thr Gln Asn Thr Ile Asn Lys Arg Thr Gln Pro Thr Phe
 275 280 285

Gly Phe Thr Val Asn Trp Lys Phe Ser Glu
 290 295

<210> 3

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide linker

<400> 3

Gly Gly Ser Gly Gly Ser
 1 5

<210> 4

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 primer

<400> 4

ctgctagatc tatggtgcac gcaacctccc c

31

<210> 5

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 primer

<400> 5

cctggcagag aggccggga

19

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 primer

<400> 6
aagaggaccc agcccacctt 20

<210> 7
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 7
ggagcctccg gagcctccct ccttctgtgt gcgcag 36

<210> 8
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 8
ggaggctccg gaggctccgc cagaaagtgc tcgctg 36

<210> 9
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 9
tgggcaagct tcacttggtg atggtgtttt g 31

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 10
aagtccacca ctgtcttcac g 21

<210> 11
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 11
 agacaaagct tcactctgaa aacttccaat tg 32

<210> 12
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 12
 gtggtggatc cgccggactt gttgatggtg ttttgtgt 38

<210> 13
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 13
 ccggcggatc caccactgtc ttcacgggc 29

<210> 14
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 14
 agggtcggct cgaacatctt 20

<210> 15
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 15
 aagatgttgc agccgaccct 20

 <210> 16
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 16
 cacaggcacc cacatcacag ccg 23

 <210> 17
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 17
 cggtgtgat gtgggtgcct gtg 23

 <210> 18
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 18
 gccggatcta ccactgtc 18

 <210> 19
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 19
 gacagtggta gatccgcc 18

<210> 20
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 20
 ccggcagatc taccactgtc ttcacgggc

29

<210> 21
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 21
 atcctcggat cccgatccgg aacctccctc tgaaaacttc

40

<210> 22
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 22
 ggctctggtg gctggatccg gctctggcag cggcaggacc cagccc

46

<210> 23
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 23
 ctacaaatgt ggtatggctg

20

<210> 24
 <211> 581
 <212> PRT
 <213> Gallus gallus

<400> 24

Met Val His Ala Thr Ser Pro Leu Leu Leu Leu Leu Leu Ser Leu
 1 5 10 15
 Ala Leu Val Ala Pro Gly Leu Ser Ala Arg Lys Arg Thr Gln Pro Thr
 20 25 30
 Phe Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe
 35 40 45
 Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr
 50 55 60
 Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys
 65 70 75 80
 Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys
 85 90 95
 Glu Gly Gly Ser Gly Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys
 100 105 110
 Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser
 115 120 125
 Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser
 130 135 140
 Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn
 145 150 155 160
 Lys Ser Gly Gly Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp
 165 170 175
 Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser
 180 185 190
 Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn
 195 200 205
 Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly Gly Ser
 210 215 220
 Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser
 225 230 235 240
 Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr
 245 250 255
 Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro
 260 265 270
 Leu His Gly Thr Gln Asn Thr Ile Asn Lys Arg Thr Gln Pro Thr Phe
 275 280 285
 Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Gly Gly Ser Gly Ser Gly
 290 295 300

Ser Gly Ser Gly Ser Gly Arg Thr Gln Pro Thr Phe Gly Phe Thr Val
 305 310 315 320
 Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe Thr Gly Gln Cys Phe
 325 330 335
 Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg
 340 345 350
 Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly
 355 360 365
 Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly
 370 375 380
 Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu
 385 390 395 400
 Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr
 405 410 415
 Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile Lys Glu
 420 425 430
 Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn Lys Ser Gly Gly Ser
 435 440 445
 Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu
 450 455 460
 Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly
 465 470 475 480
 Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu
 485 490 495
 Arg Thr Gln Lys Glu Gly Gly Ser Gly Gly Ser Ala Arg Lys Cys Ser
 500 505 510
 Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly
 515 520 525
 Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val
 530 535 540
 Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln
 545 550 555 560
 Asn Thr Ile Asn Lys Arg Thr Gln Pro Thr Phe Gly Phe Thr Val Asn
 565 570 575
 Trp Lys Phe Ser Glu
 580

<210> 25
 <211> 1746
 <212> DNA
 <213> *Gallus gallus*

<400> 25
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 cccggcctct ctgccaggaa gaggaccag cccacctttg gcttcaccgt caattggaag 120
 ttttcagagt ccaccactgt cttcacgggc cagtgttca tagacaggaa tgggaaggag 180
 gtcctgaaga ccatgtggct gctgcggtca agtggttaatg acattggtga tgactggaaa 240
 gtaccagggt tcggcatcaa catcttcaact cgcctgcgca cacagaagga gggaggctcc 300
 ggaggctccg ccagaaagtg ctgctgact gggaaatgga ccaacgatct gggctccaac 360
 atgaccatcg gggctgtgaa cagcagaggt gaattcacag gcacctacat cacagccgta 420
 acagccacat caaatgagat caaagagtca ccactgcatg ggacacaaaa caccatcaac 480
 aagtcgggcg gatccaccac tgtcttcacg ggccagtgt tcatagacag gaatgggaag 540
 gaggtcctga agaccatgtg gctgctgcgg tcaagtgtta atgacattgg tgatgactgg 600
 aaagctacca gggtcggcat caacatcttc actcgctgc gcacacagaa ggaggaggc 660
 tccggagggt ccgccagaaa gtgctcgctg actgggaaat ggaccaacga tctgggctcc 720
 aacatgacca tcggggctgt gaacagcaga ggtgaattca caggcaccta catcacagcc 780
 gtaacagcca catcaaatga gatcaaagag tcaccactgc atgggacaca aaacaccatc 840
 aacaagagga cccagcccac ctttggcttc accgtcaatt ggaagttttc agaggagggt 900
 tccggatcgg gatccggctc tggcagcggc aggaccagc ccacctttgg cttcaccgtc 960
 aattggaagt tttcagagtc caccactgtc ttacggggc agtgcttcat agacaggaat 1020
 gggaaggagg tcctgaagac catgtggctg ctgcgggtcaa gtgttaatga cattggtgat 1080
 gactggaaag ctaccagggt cggcatcaac atcttcaact gcctgcgcac acagaaggag 1140
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 ggctccaaca tgaccatcgg ggctgtgaac agcagagggtg aattcacagg cacctacatc 1260
 acagccgtaa cagccacatc aaatgagatc aaagagtac cactgcatgg gacacaaaaac 1320
 accatcaaca agtcgggagg atccaccact gtcttcacgg gccagtgtt catagacagg 1380
 aattggaagg aggtcctgaa gacctgtgg ctgctgcgg caagtgttaa tgacattggt 1440
 gatgactgga aagctaccag ggtcggcatc aacatcttca ctgcctgcg cacacagaag 1500
 gagggagggt ccggaggctc cgccagaaag tgctcgctga ctgggaaatg gaccaacgat 1560
 ctgggctcca acatgaccat cggggctgtg aacagcagag gtgaattcac aggcacctac 1620
 atcacagccg taacagccac atcaaatgag atcaaagagt caccactgca tgggacacaa 1680
 aacaccatca acaagaggac ccagcccacc tttggcttca ccgtcaattg gaagttttca 1740
 gagtga 1746

<210> 26
 <211> 897
 <212> DNA
 <213> *Gallus gallus*

<400> 26
 atggtgacag caacctcccc gctgctgctg ctgctgctgc tcagcctggc tctggtggct 60
 cccggcctct ctgccaggaa gaggaccag cccacctttg gcttcaccgt caattggaag 120
 ttttcagagt ccaccactgt cttcacgggc cagtgttca tagacaggaa tgggaaggag 180
 gtcctgaaga ccatgtggct gctgcggtca agtggttaatg acattggtga tgactggaaa 240
 gtaccagggt tcggcatcaa catcttcaact cgcctgcgca cacagaagga gggaggctcc 300
 ggaggctccg ccagaaagtg ctgctgact gggaaatgga ccaacgatct gggctccaac 360
 atgaccatcg gggctgtgaa cagcagaggt gaattcacag gcacctacat cacagccgta 420
 acagccacat caaatgagat caaagagtca ccactgcatg ggacacaaaa caccatcaac 480
 aagtcgggcg gatccaccac tgtcttcacg ggccagtgt tcatagacag gaatgggaag 540
 gaggtcctga agaccatgtg gctgctgcgg tcaagtgtta atgacattgg tgatgactgg 600
 aaagctacca gggtcggcat caacatcttc actcgctgc gcacacagaa ggaggaggc 660
 tccggagggt ccgccagaaa gtgctcgctg actgggaaat ggaccaacga tctgggctcc 720
 aacatgacca tcggggctgt gaacagcaga ggtgaattca caggcaccta catcacagcc 780
 gtaacagcca catcaaatga gatcaaagag tcaccactgc atgggacaca aaacaccatc 840

aacaagagga cccagccac ctttggttc accgtcaatt ggaagttttc agagtga 897

<210> 27

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 27

aatttaagct tatgttacgg ctgtgatgta g 31

<210> 28

<211> 290

<212> PRT

<213> Gallus gallus

<400> 28

Met	Asn	Lys	Pro	Ser	Lys	Phe	Ala	Leu	Pro	Leu	Ala	Phe	Ala	Ala	Val	
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Thr	Ala	Ser	Gly	Val	Ala	Ser	Ala	Gly	Thr	Gln	Pro	Thr	Phe	Gly	Phe	
			20					25					30			
Thr	Val	Asn	Trp	Lys	Phe	Ser	Glu	Ser	Thr	Thr	Val	Phe	Thr	Gly	Gln	
			35				40					45				
Cys	Phe	Ile	Asp	Arg	Asn	Gly	Lys	Glu	Val	Leu	Lys	Thr	Met	Trp	Leu	
	50					55					60					
Leu	Arg	Ser	Ser	Val	Asn	Asp	Ile	Gly	Asp	Asp	Trp	Lys	Ala	Thr	Arg	
	65				70					75					80	
Val	Gly	Ile	Asn	Ile	Phe	Thr	Arg	Leu	Arg	Thr	Gln	Lys	Glu	Gly	Gly	
			85					90						95		
Ser	Gly	Gly	Ser	Ala	Arg	Lys	Cys	Ser	Leu	Thr	Gly	Lys	Trp	Thr	Asn	
			100					105					110			
Asp	Leu	Gly	Ser	Asn	Met	Thr	Ile	Gly	Ala	Val	Asn	Ser	Arg	Gly	Glu	
		115					120					125				
Phe	Thr	Gly	Thr	Tyr	Ile	Thr	Ala	Val	Thr	Ala	Thr	Ser	Asn	Glu	Ile	
	130					135					140					
Lys	Glu	Ser	Pro	Leu	His	Gly	Thr	Gln	Asn	Thr	Ile	Asn	Lys	Ser	Gly	
	145				150					155					160	
Gly	Ser	Lys	Glu	Ser	Pro	Leu	His	Gly	Thr	Gln	Asn	Thr	Ile	Asn	Lys	
				165					170					175		
Arg	Thr	Gln	Pro	Thr	Phe	Gly	Phe	Thr	Val	Asn	Trp	Lys	Phe	Ser	Glu	
			180					185						190		

Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys
 195 200 205

Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile
 210 215 220

Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg
 225 230 235 240

Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly Gly Ser Ala Arg Lys Cys
 245 250 255

Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile
 260 265 270

Gly Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala
 275 280 285

Val Thr
 290

<210> 29
 <211> 873
 <212> DNA
 <213> Gallus gallus

<400> 29
 atgaacaaac cctccaaatt cgctctgccc cttgccttcg ccgcgcgttac ggccctctggt 60
 gttgcctcgg ctggtaccca gccaccttt ggcttcaccg tcaattggaa gttttcagag 120
 tccaccactg tcttcacggg ccagtgttc atagacagga atgggaagga ggtcctgaag 180
 accatgtggc tgctgcgggc aagtgttaat gacattggtg atgactggaa agtaccagg 240
 gtcggcatca acatcttcac tcgcctgccc acacagaagg agggaggctc cggaggctcc 300
 gccagaaagt gctcgctgac tgggaaatgg accaacgatc tgggctccaa catgaccatc 360
 ggggctgtga acagcagagg tgaattcaca ggcacctaca tcacagccgt aacagccaca 420
 tcaaatgaga tcaaagagtc accactgcat gggacacaaa acaccatcaa caagtccggc 480
 ggatccaaag agtcaccact gcatgggaca caaaacacca tcaacaagag gaccagccc 540
 acctttggct tcaccgtcaa ttggaagttt tcagagtcca cactgtctt cacgggccag 600
 tgcttcatag acaggaatgg gaaggaggtc ctgaagacca tgtggctgct gcggtcaagt 660
 gttaatgaca ttggtgatga ctggaaagct accagggtcg gcatcaacat cttcactcgc 720
 ctgcgcacac agaaggaggg aggtccgga ggctccgcca gaaagtgtc gctgactggg 780
 aaatggacca acgatctggg ctccaacatg accatcgggg ctgtgaacag cagaggtgaa 840
 ttcacaggca cctacatcac agccgtaaca taa 873

<210> 30
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 30
 Ser Gly Gly Ser
 1

<210> 31
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 31
Gly Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly
1 5 10

<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 32
Gly Gly Ser Gly Ser Gly Ser
1 5

<210> 33
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 33
Gly Ser Gly Ser Gly Ser Gly
1 5